
a. General.

1) Pipelines designed on steep slopes with a grade of twenty (20%) percent or greater require concrete anchors. For material and other requirements for pipes on steep slopes, see Part Two, Section 15, (Pipe Slope and Manhole Distance) and Part Two, Section 9 (Vertical Alignment - Pipe Slope).

b. Design Requirements.

1) Pipe Slopes twenty (20%) percent to under fifty (50%) percent.

a) Concrete anchors for DIP and AWWA C900/905 PVC pipe, 24-inch diameter and smaller, are to be according to the Standard Detail M/4.0.

b) On profile show the concrete anchor and the spacing in accordance with Standard Detail M/4.0. Space the anchors depending on the pipe slope. Determine the pipe slope and show the stations at which the anchors are to be located on the pipeline, see Sketch "CC".

c) For concrete anchors for 24-inch diameter and smaller pipe other than DIP and AWWA C900/905, and all pipe greater than 24-inch diameter, special design is required. Provide details on the drawings and submit calculations.

2) Pipe slopes fifty (50%) percent and greater. Special design is required, provide details on the drawings and submit calculations.